**The Process of Photosynthesis Graphic Organizer**

**Directions:** Match the terms below with the correct description. Make a graphic organizer for how the information is related. Create your graphic organizer on the back of this sheet.

Chlorophyll

Chloroplast

Electron Transport Chain

Light-dependent reactions

Light-independent reactions

Photosynthesis

Thylakoid

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Energy-capturing portion of photosynthesis that takes place in thylakoid membranes of chloroplasts and cannot proceed without light energy; produces ATP and NADPH
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Green pigment that absorbs solar energy and is important in photosynthesis. Found inside the thylakoid.
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Membrane-bound organelle containing thylakoids; where the whole process of photosynthesis takes place.
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ A system of membranes within chloroplasts that contains chlorophyll and the electron transport chain.
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Passage of electrons along a series of carrier molecules from a higher to a lower energy level; the energy released is used to make ATP
6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ A process usually occurring within chloroplasts where chlorophyll traps solar energy and carbon dioxide used.
7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ The synthesis portion of photosynthesis that takes place in the stroma of chloroplasts and does not require light energy

**Graphic Organizer Name:**

Please draw your graphic organizer below.